

Program Process

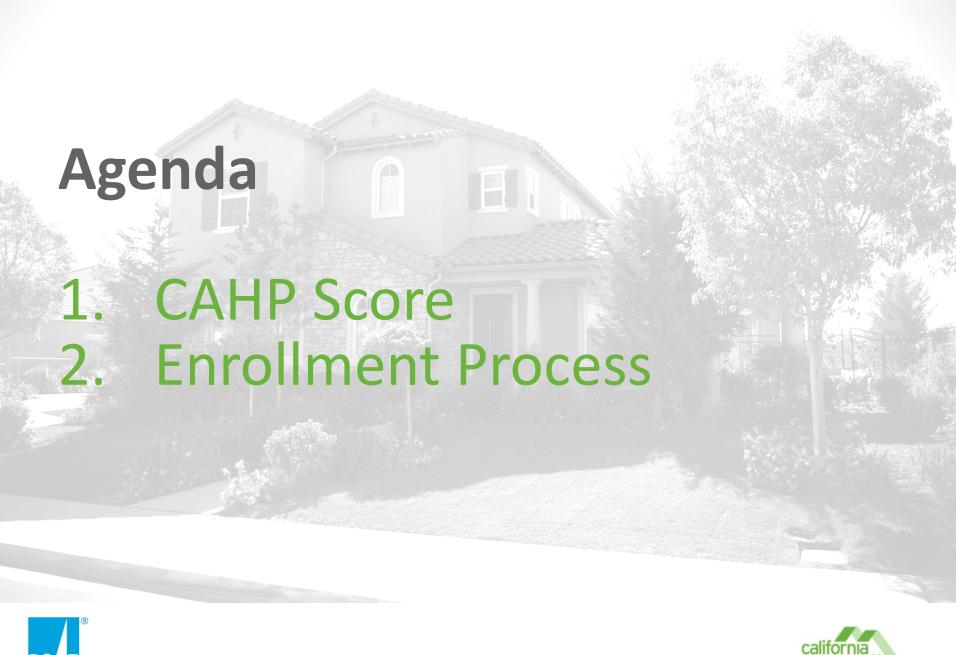
California Advanced Homes Program Pacific Gas and Electric Territory

Administered by TRC













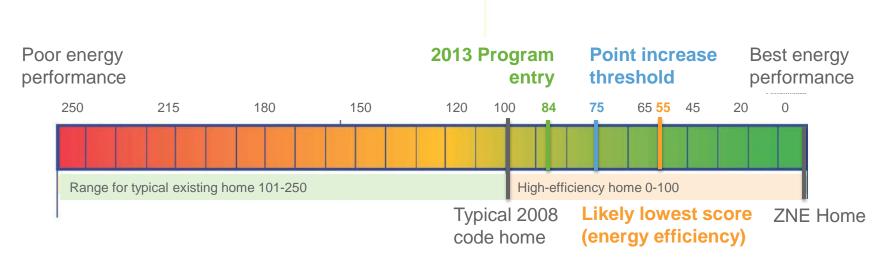






New Title 24 - New Program

CAHP scores replace percent better than code



- Similar to the RESNET HERS Score (0-250)
- A lower score equates to better performance and a higher incentive





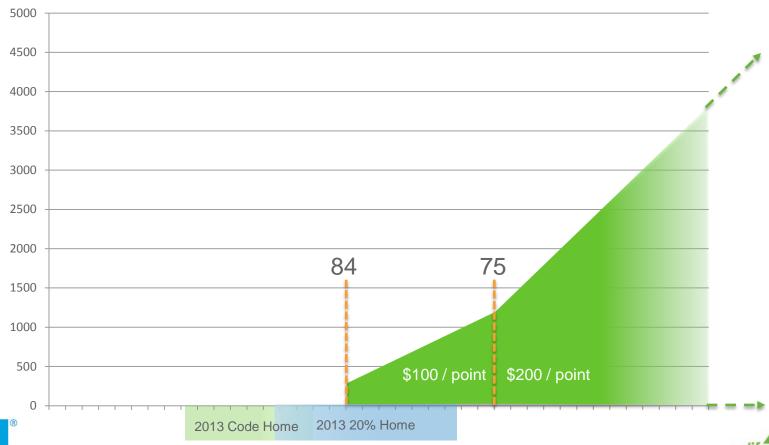
CAHP Incentive Structure

\$300 for program entry CAHP Score of 84

Per home:

- \$100 for each point down to 75\$200 for each point thereafter

Average incentive per home is expected to be around \$1,000







CAHP Incentive Structure

Final CAHP Score		Incentive Amount	Final CAHP Score		Incentive Amount	Final CAHP Score		Incentive Amount
84	=	\$300	72	=	\$1,800	60	=	\$4,200
83	=	\$400	71	=	\$2,000	59	=	\$4,400
82	=	\$500	70	=	\$2,200	58	=	\$4,600
81	=	\$600	69	=	\$2,400	57	=	\$4,800
80	=	\$700	68	=	\$2,600	56	=	\$5,000
79	=	\$800	67	=	\$2,800	55	=	\$5,200
78	=	\$900	66	=	\$3,000	54	=	\$5,400
77	=	\$1,000	65	=	\$3,200	53	=	\$5,600
76	=	\$1,100	64	=	\$3,400	52	=	\$5,800
75	=	\$1,200	63	=	\$3,600	51	=	\$6,000
74*	=	\$1,400	62	=	\$3,800	50	=	\$6,200
73	=	\$1,600	61	=	\$4,000	49	=	\$6,400

^{*}After a CAHP Score falls below 75, \$200 per point reduction is added





2014 CAHP Project Examples

				•	
Location	San Jose (CZ 4)	Riverside (CZ 10)	San Diego (CZ 7)	Fresno (CZ 13)	
Building Type	2,100 default	2,100 default	2,100 default	2,100 default	
CAHP Score	81	69	80	55	
Annual Energy Use (kTDV)	154,749	152,712	116,970	165,858	
EE Measures	2013 Prescriptive, Plus:	2013 Prescriptive, Plus: 2013 Prescriptive, Plus:		2013 Prescriptive, Plus:	
Envelope	• QII	 QII R-21 wall cavities U28/S22 windows 3.0 ACH50 blower door Cool Roof (0.90 emit.) 	• QII	 QII R-21 wall cavities R-8 ext wall insulation R-10 24" slab edge insulation 24" OC stud spacing R-13 roof deck insulation U28/S22 windows 1.0 ACH50 blower door Cool roof (0.90 emit.) 	
HVAC	• SEER 14/EER 12, 84% AFUE	• SEER 14/EER 12, 84% AFUE	-	• SEER 18/EER 14, 95% AFUE	
DHW	0.82 EF tankless	-	0.97 EF tanklessAll pipes insulated	0.97 EF TanklessAll pipes insulated	
Other	-	R-8 ducts	-	R-8 ductsDucts in conditioned space	
Incentive*	\$500	\$2,300	\$600	\$5,100	

^{*}Individual results may vary considerably





CAHP Incentive Bonuses

Future Code Preparation – 5 CAHP points

Must meet five measures, explained on the <u>CAHP website</u>
 (Measures include: High Performance Attic/Ducts in Conditioned Space & R21+4 walls/performance equivalent)

DOE Zero Energy Ready Home – 3 CAHP points

www.energy.gov/eere/buildings/zero-energy-ready-home

Low Energy Use bonus – 5 CAHP points

Use is less than 100,000 kTDV/year

Ultra Low Energy Use bonus – 5 CAHP points

Use is less than 60,000 kTDV/year





Calculate Your Score

Automatic: energy model outputs include Incentive Report **Manual:** Use the Score and Incentive Tool (available on the **cahp-pge.com**website>Program> <u>CAHP Score & Incentive Tool</u>

			california advanced homes	Toll Free (866) 352-7457 11211 Gold Country Blvd. Suite 103 Gold River, CA 95670	
			Home Program Incentives Projects	Training & Events Resources	
	Compliance %	25.2%	ABOUT THE PROGRAM The 2014-15 California Advanced Homes Program serves to encourage residential	PG&E CAHP RESOURCES	
	Initial CAHP Score	75	new construction to meet two visionary goals set forth by the California Public Utilities Commission (CPUC). The first is to help builders prepare for future code changes and build homes above code and ahead of the curve. The second is for all new homes to reach Zero Net Energy (ZNE) by 2020.	Application	
	CAHP Bonus Points	0	larticipation is open to single-family, low-rise and high-rise multi-family residential in w construction built in an IOU service area. The CAHP is a comprehensive residential new construction concept with a cross-cutting focus on sustainable	Process Timeline	
Г	Final CAHP Score	75	des in and construction, green building practices, energy efficiency, and emerging technologies. Through a combination of education, design assistance and financial support, the CAHP works with building and related industries to exceed compliance with the California Code of Regulations, Title 24, Part 6, 2013 Building	IRF Checklist	
	CAHP SF Incentive	\$ 1,200	Energy 'fficiency Standards for Residential and Nonresidential Buildings (Standard), to prepare builders for changes to the Standards and to create future pathways eyond compliance and traditional energy savings objectives.		
•			The CAHP is designed for the performance-based approach for compliance. Compliance with the 2013 Title 24 Standards must be demonstrated through the performance method utilizing approved California Energy Commission (CEC) compliance so ware. The documents must be created and signed by a Certified	Adjustment Application	
	Total Annual KTDV	261,575.68	Energy Analyst (EA)*. Compliance must be demonstrated for each building as a whole and may not group unrelated or detached buildings together. For complete program details, download the Program Handbook.	Adjustment Checklist	
			PROGRAM NEWS Information on the 2014 California Advanced Homes Program is now available!	Contact Our Staff	
			This PDF document explains the new program concept for energy consultants and builders.	Matthew Christie Program Manager mchristie@trcsolutions.com	
			CAHP Score & Incentive Tool	Kevin Robison Plan Review Manager krobison@trcsolutions.com	
			To help Title 24 consultants prepare for the program changes that will start in July with the 2013 Energy Code, Matthew Christie built a CAHP Score and Incentive Tool that takes the standard output from CBECC-Res and generates CAHP details for the new program. The directions are simple: just enter the CBECC-Res TDV outputs straight from its Review Analysis Results screen. You only need to enter the data into the green and grey shaded cells. Please be sure the read and	Michelle Waffle-Otero Program Participation Coordinator rmwaffle@ircsolutions.com Deborah Hayman Program Application Coordinator the warm and proper properties of the coordinator of t	





Questions?



Next up: Enrollment process for the 2014 program











2014 Program Participation Eligibility

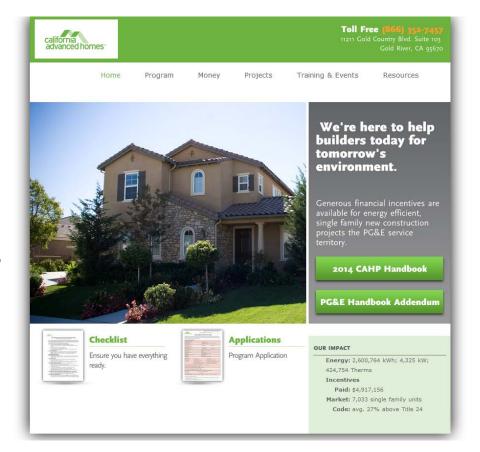
Permitting under 2013 Title 24 standards	Permits must be issued July 1, 2014 or after	
PG&E service area for both gas and electric for full incentives	If only gas or electricity (not both) the project may receive partial incentives	
New construction	Gut rehabs down to the studs with all new equipment may apply	
Single family homes, duplexes	Townhomes with air spaces and no shared walls may apply	
Minimum CAHP Score of 84	See the CAHP Program Handbook for additional eligibility requirements	





CAHP – Complete Application Package

- 1. 2014 CAHP Application
- 2. PDF construction plans
- 3. Lot list (production homes)
- 4. Site map with North arrow
- 5. PG&E service verification
- 6. Title 24 forms and input files
- 7. Equipment specifications
- 8. Registry sharing
- 9. Enrollment survey*







^{*}Completed one time per builder.

CAHP- Enrollment Process

Steps to get started and best practices:

- Download application, handbook, and checklist from the TRC CAHP website: www.cahp-pge.com
- 2. Submit entire application package (see <u>checklist</u>) as soon as possible to allow time for review.
- 3. Clearly label all documents
- 4. Use highlighter or circle the exact model and efficiency of planned installations on all specification sheets.
- 5. Maintain communication with your project team

Remember – we are happy to help! Feel free to contact us with your questions.





2014 CAHP Participation Process

Overall process remains similar to prior program cycle with the exception that a project must complete plan review before drywall is installed and HERS testing begins*.

New application

- Title 24 documents (including CAHP Incentive Report)
- Building plans and spec sheets
- Proof of service
- Other supporting documents

Application

Plan Review

- Plan Review team reviews and comments on submission documents
- CAHP team sends project to PG&E for enrollment
- CAHP team sends
 Acceptance package to Builder

 HERS rater visits site and verify compliance

- HERS rater uploads results to designated HERS registry
- HERS rater notifies Builder that lots are ready to request payment

HERS Verification * Subject to change

Incentive Payment

- Builder confirms lots have been tested with HERS rater
- Submit complete Incentive Request Form (IRF) and supporting documents





Free Design Assistance

CAHP can coordinate with your project team to:

- Optimize energy savings and incentives
- Maximize home/building performance
- Exceed Title 24 standards
- Reach high-incentive bonus CAHP points

How to request design assistance:

- Engage early
- Contact Kevin Robison or Matthew Christie
- Receive ongoing design assistance during plan review







Thank you!

Matthew Christie

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TRC's CAHP Website: http://cahp-pge.com

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